

[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#) [Search Form](#) [Posting Counts](#) [Show S Numbers](#) [Edit S Numbers](#) [Preferences](#)**Search Results -**

Term	Documents
"6063611".USPT.	1
6063611S	0
"6063611".PN.USPT.	1

Database:

6063611.pn.

Refine Search:

**Search History**

Today's Date: 11/4/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	6063611.pn.	1	<u>L6</u>
USPT	seq\$ near2 id\$ near2(1 or 2) same cellulase	25	<u>L5</u>
JPAB,EPAB,DWPI	seq\$ near2 id\$ near2(1 or 2) same cellulase	3	<u>L4</u>
JPAB,EPAB,DWPI	seq\$ near2 id\$ near2(1 or 2)	580	<u>L3</u>
JPAB,EPAB,DWPI	bce near2 (103 or 113)	0	<u>L2</u>
JPAB,EPAB,DWPI	cbs near3 (670.93 or 669.93)	2	<u>L1</u>

Your wildcard search against 2000 terms has yielded the results below

Search for additional matches among the next 2000 terms

[Generate Collection](#)

**Search Results - Record(s) 1 through 3 of 3 returned.**

1. Document ID: WO 9801569 A1

L4: Entry 1 of 3

File: EPAB

Jan 15, 1998

PUB-NO: WO009801569A1

DOCUMENT-IDENTIFIER: WO 9801569 A1

TITLE: CELLULASES

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Clip Img](#) | [Image](#)

2. Document ID: EP 540784 B1, EP 540784 A1, WO 9309224 A1, AU 9229304 A, CN 1073476 A, PT 101152 A, JP 07501092 W, US 5610129 A, CA 2122987 C

L4: Entry 2 of 3

File: DWPI

Jan 19, 2000

DERWENT-ACC-NO: 1993-153868

DERWENT-WEEK: 200009

COPYRIGHT 2000 DERWENT INFORMATION LTD

TITLE: Compsn. for inhibiting dye transfer during fabric washing - contains peroxidase, hydrogen peroxide, substrate and cellulase, esp. endo-glucanase from *Humicola insolens*

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

3. Document ID: DE 69214283 E, WO 9218688 A1, FI 9304655 A, EP 583310 A1, JP 06506732 W, NZ 242445 A, EP 583310 B1

L4: Entry 3 of 3

File: DWPI

Nov 7, 1996

DERWENT-ACC-NO: 1992-382160

DERWENT-WEEK: 199817

COPYRIGHT 2000 DERWENT INFORMATION LTD

TITLE: Cellulase prepns(s). used for paper pulp treatment - have high endo-glucanase content and little or no cellobiohydrolase

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

[Generate Collection](#)

Term	Documents
SEQ\$	0
SEQ.DWPI,EPAB,JPAB.	1681
SEQA.DWPI,EPAB,JPAB.	1
SEQAGE.DWPI,EPAB,JPAB.	5
SEQAGE-PURIFIER.DWPI,EPAB,JPAB.	1
SEQAM.DWPI,EPAB,JPAB.	1
SEQARATE.DWPI,EPAB,JPAB.	1
SEQARATED.DWPI,EPAB,JPAB.	1
SEQAUENCE.DWPI,EPAB,JPAB.	1
SEQAUEENTIAL.DWPI,EPAB,JPAB.	1
(SEQ\$ NEAR2 ID\$ NEAR2(1 OR 2) SAME CELLULASE JPAB,EPAB,DWPI	3

[There are more results than shown above. Click here to view the entire set.](#)

[Display](#)

[10](#)

Documents, starting with Document:

[3](#)

[Display Format:](#) [TI](#) [Change Format](#)

**Generate Collection**

L5: Entry 14 of 25

File: USPT

Jul 6, 1999

DOCUMENT-IDENTIFIER: US 5919271 A

TITLE: Detergent composition comprising cellulase enzyme and nonionic cellulose ether

**BSPR:**

A convenient cellulase useful in the detergent composition of the present invention may be an endoglucanase component which is immunoreactive with an antibody raised against a highly purified .about.43 kD endoglucanase derived from *Humicola insolens*, DSM 1800, or which is a homologue or derivative of the .about.43 kD endoglucanase exhibiting cellulase activity. A preferred endoglucanase component has the amino acid sequence disclosed in PCT Patent Application No. WO 91/17243, SEQ ID#2, which is shown in the appended SEQ ID NO:4, or a variant of said endoglucanase having an amino acid sequence being at least 60%, preferably at least 70%, more preferably 75%, more preferably at least 80%, more preferably 85%, especially at least 90% homologous with said sequence.

Generate Collection

L5: Entry 15 of 25

File: USPT

Jun 29, 1999

DOCUMENT-IDENTIFIER: US 5916798 A

TITLE: Method of obtaining a cellulosic textile fabric with reduced tendency to pilling formation

## BSPR:

A preferred example of a native or parent cellulase is an alkaline endoglucanase which is immunologically reactive with an antibody raised against a highly purified .sup..about. 43 kD endoglucanase derived from *Humicola insolens*, DSM 1800, or which is a derivative of the .sup..about. 43 kD endoglucanase exhibiting cellulase activity. A preferred endoglucanase component has the amino acid sequence enclosed as SEQ ID No. 1 which is also disclosed in the International Patent Application published as WO 91/17243, SEQ ID#2, which is hereby incorporated by reference. Another preferred endoglucanase component is the core enzyme corresponding to the amino acid sequence enclosed as SEQ ID No. 1, but having the amino acid sequence corresponding to position 1-213, i.e. truncated at position 213. It is contemplated that other useful endoglucanases are enzymes having amino acid sequences corresponding to the amino acid sequence enclosed as SEQ ID No. 1, but which are truncated, preferably genetically truncated, at any position between position 213 and position 247 of the SEQ ID No. 1, i.e. having an amino acid sequence consisting of between 213 and 247 amino acid residues.

[Generate Collection](#)

L5: Entry 16 of 25

File: USPT

Jun 29, 1999

DOCUMENT-IDENTIFIER: US 5916796 A  
TITLE: Enzyme exhibiting cellulase activity

DEPR:

The complete nucleotide sequence is shown in Sequence listing ID#1. A computer analysis of this sequence revealed only one open reading frame long enough to encode the approx. 75000 D protein detected by the maxicell and zymogram analysis of extracts from the cellulase-positive *E. coli* MC1000(pPL517). This sequence which begins at nucleotide 677 and ends at nucleotide 2776, encodes an enzyme of 700 amino acids. The M.sub.r calculated from the DNA sequence was 77006 D.

08/945,574

=> d his

(FILE 'HOME' ENTERED AT 11:53:20 ON 04 NOV 2000)

FILE 'CA' ENTERED AT 11:53:33 ON 04 NOV 2000

E LENTING HERMANUS BERNARDUS MARIA/IN

L1 5 S E2-E3  
E VAN BECKHOVEN RUDOLF FRANCISCUS W C/IN  
L2 4 S E1, E2, E4, E5  
L3 2 S L2 NOT L1  
E MAURER KARL HEINZ/IN  
L4 42 S E2-E3  
L5 40 S L4 NOT L1  
E KOTTWITZ BEATRIX/IN  
L6 76 S E3-E4  
L7 75 S L6 NOT L1  
L8 64 S L7 NOT L5  
E WEISS ALBRECHT/IN  
L9 37 S E3  
L10 35 S L9 NOT L1  
E VAN SOLINGEN PIETER/IN  
L11 10 S E2-E4  
L12 8 S L11 NOT L1  
L13 2 S CELLULASE# (P) CBS 670.93  
L14 1 S CELLULASE# (P) CBS 669.93  
L15 134 S SEQ(2W) ID(2W) (1 OR 2)  
L16 170097 S DETERGENT# OR DETERSIVE# OR TENSIDE# OR LAUNDRY OR CLOTH?  
OR  
L17 0 S L15 AND L16  
L18 1 S BCE(2W) (103 OR 113)  
L19 1 S CELLULASE# (P) (TENSILE STRENGTH OR TSL) (P) (ANTIPILLING OR AP)  
L20 1 S CELLULASE# (P) (TENSILE STRENGTH OR TSL) (P) (ANTIPILING OR AP)  
L21 60 S (TENSILE STRENGTH OR TSL) (P) (ANTIPILING OR AP)  
L22 76 S (TENSILE STRENGTH OR TSL) (P) (ANTIPILING OR ANTIPILLING OR  
PIL  
L23 75 S L22 NOT L21  
L24 40 S (LAUNDRY OR LAUNDERING OR WASHING CLOTH? OR  
WASHING) (P) (CELLU

FILE 'USPATFULL' ENTERED AT 12:37:29 ON 04 NOV 2000

L25 1 S L13  
L26 1 S L14  
L27 2 S L18  
L28 1 S L26 NOT L25

L24 ANSWER 36 OF 40 CA COPYRIGHT 2000 ACS

AN 77:77084 CA

TI Enzyme-containing detergent

IN Eymer, Jean-Pierre Denis Bertrand; Trieu, Doreen

PA Procter and Gamble European Technical Center

SO Ger. Offen., 22 pp.

CODEN: GWXXBX

DT Patent

LA German

IC C11D

CC 46-3 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2158487	A	19720531	DE 1971-2158487	19711125
	ES 397125	A1	19750516	ES 1971-397125	19711118
	IT 945119	A	19730510	IT 1971-54305	19711124
	NL 7116192	A	19720530	NL 1971-16192	19711125
	FR 2116046	A5	19720707	FR 1971-42249	19711125
	GB 1356130	A	19740612	GB 1971-54838	19711125
	AU 7136218	A1	19730531	AU 1971-36218	19711126
	CH 571059	A	19751231	CH 1971-17291	19711126
	CA 996046	A1	19760831	CA 1971-128655	19711126

PRAI LU 1970-62152 19701127

AB Laundry detergent compns. with improved spot removal properties were composed of org. detergents; an org. complex-forming builder, or an inorg. builder or their mixt., in a 1:10 or 1:30 ratio to the detergent; 2-50% of a peracid or compds. which produce a peracid in situ; and a serine-type proteolytic enzyme. A granular laundry compn. was prep'd. by spray-drying a mixt. of Na dodecyl benzenesulfonate 9, tall oil alc.-ethylene oxide condensate 2, hydrated C10-22 fatty acid 3, Na3PO4 30, a 2:1 mixt. of SiO2 and Na2O 6, Na2SO4 6, CM-cellulose 1, and other additives .sim.30 parts, and then adding 7 parts sodium perborate [11130-13-5], 7 parts benzoyl imidazole [35312-62-0]activator, and 20 ppm NCIB-10-317 [9057-31-2]enzyme.

Laundry washed in a .75% soln. of this compn. 20-60.deg. showed 82, 82, and 69% removal of spinach, watercress, and grass stains, resp.

ST stain removal enzyme detergent

IT Detergents

(contg. per acids and proteinases, for stain removal)

IT Acids, uses and miscellaneous

RL: USES (Uses)

(peroxy, detergents contg. proteolytic enzyme and, for stain removal)

IT Stains

(removal of, detergents contg. per acids and proteinases for)

IT 9001-92-7 9057-31-2

RL: USES (Uses)

(detergents contg. per acids and, for stain removal)

IT 11138-47-9 35312-62-0

RL: USES (Uses)

(detergents contg. proteolytic enzyme and, for stain removal)

L1  
BERNARDU

5 ("LENTING HERMANUS BERNARDUS M"/IN OR "LENTING HERMANUS  
S MARIA"/IN)

=> d 1-5 11 ti

L1 ANSWER 1 OF 5 CA COPYRIGHT 2000 ACS  
TI Detergents comprising cellulases of *Bacillus* with improved performance

L1 ANSWER 2 OF 5 CA COPYRIGHT 2000 ACS  
TI *Bacillus* cellulase and its applications for detergents and textile  
treatment

L1 ANSWER 3 OF 5 CA COPYRIGHT 2000 ACS  
TI Defatting starch-containing food waste by using lipase

L1 ANSWER 4 OF 5 CA COPYRIGHT 2000 ACS  
TI Lipases with improved surfactant resistance and their use in detergents  
and washing compositions

L1 ANSWER 5 OF 5 CA COPYRIGHT 2000 ACS  
TI *Pseudomonas* *pseudoalcaligenes* lipase variants for use in detergent  
applications

=> d 1-2 11

L1 ANSWER 1 OF 5 CA COPYRIGHT 2000 ACS  
AN 126:20425 CA  
TI Detergents comprising cellulases of *Bacillus* with improved performance  
IN Lenting, Hermanus Bernardus Maria; Van Beckhoven Rudolf  
Franciscus; Maurer, Karl-heinz; Kottwitz, Beatrix; Weiss, Albrecht; Van  
Solinghen, Pieter  
PA Genencor International, Inc., USA; Lenting, Hermanus Bernardus Maria; Van  
Beckhoven, Rudolf Franciscus; Maurer, Karl-Heinz; Kottwitz, Beatrix;  
Weiss, Albrecht; Van Solingen, Pieter  
SO PCT Int. Appl., 32 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 2  
PATENT NO. KIND DATE APPLICATION NO. DATE  
----- ----- -----  
PI WO 9634092 A2 19961031 WO 1996-EP1755 19960426  
WO 9634092 A3 19970227  
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,  
ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,  
LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
SG, SI  
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,  
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN  
EP 739982 A1 19961030 EP 1995-201115 19950428  
R: NL  
ZA 9603348 A 19961104 ZA 1996-3348 19960426  
AU 9656927 A1 19961118 AU 1996-56927 19960426  
AU 710006 B2 19990909 CA 1996-2246622 19960426  
CA 2246622 AA 19970918 WO 1996-US5651 19960426  
WO 9734005 A1 19970918  
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,  
ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,  
LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG,  
KZ, MD, RU, TJ, TM  
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,  
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,  
MR, NE, SN, TD, TG  
AU 9657138 A1 19971001 AU 1996-57138 19960426  
EP 827534 A2 19980311 EP 1996-914993 19960426  
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL  
EP 888455 A1 19990107 EP 1996-915338 19960426  
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, FI  
JP 11504062 T2 19990406 JP 1996-532184 19960426  
CN 1214082 A 19990414 CN 1996-180208 19960426  
BR 9612547 A 19990720 BR 1996-12547 19960426  
US 6063611 A 20000516 US 1997-732433 19970318  
PRAI EP 1995-201115 19950428  
US 1996-614115 19960312  
WO 1996-EP1755 19960426  
WO 1996-US5651 19960426

L1 ANSWER 2 OF 5 CA COPYRIGHT 2000 ACS  
AN 125:321659 CA

TI Bacillus cellulase and its applications for detergents and textile treatment

IN Van Beckhoven, Adolf Franciscu; Lenting, Hermanus Bernardus M.; Maurer, Karl-Heinz; Van Solingen, Pieter; Weiss, Albrecht

PA Genencor International, Inc., USA

SO Eur. Pat. Appl., 17 pp

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 739982	A1	19961030	EP 1995-201115	19950428
	R: NL				
	CA 2219245	AA	19961031	CA 1996-2219245	19960426
	CA 2222141	AA	19961031	CA 1996-2222141	19960426
	WO 9634092	A2	19961031	WO 1996-EP1755	19960426
	WO 9634092	A3	19970227		
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	WO 9634108	A2	19961031	WO 1996-US5652	19960426
	WO 9634108	A3	19961205		
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	ZA 9603347	A	19961104	ZA 1996-3347	19960426
	ZA 9603349	A	19961104	ZA 1996-3349	19960426
	AU 9655692	A1	19961118	AU 1996-55692	19960426
	AU 703309	B2	19990325		
	AU 9656927	A1	19961118	AU 1996-56927	19960426
	AU 710006	B2	19990909		
	EP 827534	A2	19980311	EP 1996-914993	19960426
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
	EP 828840	A2	19980318	EP 1996-913073	19960426
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	CN 1185179	A	19980617	CN 1996-193560	19960426
	CN 1185807	A	19980624	CN 1996-194290	19960426
	BR 9608071	A	19990126	BR 1996-8071	19960426
	JP 11503902	T2	19990406	JP 1996-522486	19960426
	JP 11504062	T2	19990406	JP 1996-532184	19960426
	US 5856165	A	19990105	US 1997-727548	19970604
PRAI	EP 1995-201115		19950428		
	US 1996-614115		19960312		
	WO 1996-EP1755		19960426		
	WO 1996-US5652		19960426		

L2 4 ("VAN BECKHOVEN RUDOLF FRANCISCU"/IN OR "VAN BECKHOVEN RUDOLF  
FRANCISCUS"/IN OR "VAN BECKHOVEN RUDOLF FRANCISCUS  
WILHELMUS"/I  
N OR "VAN BECKHOVEN RUDOLF FRANCISCUS WILHELMUS CORNELUS"/IN)

=> s 12 not 11

L3 2 L2 NOT L1

=> d 1-2 13 ti

L3 ANSWER 1 OF 2 CA COPYRIGHT 2000 ACS  
TI Bread improving composition comprising Aspergillus cellobiohydrolase

L3 ANSWER 2 OF 2 CA COPYRIGHT 2000 ACS  
TI Alkali-tolerant xylanases of Bacillus and use for paper and pulp  
production

L11 10 ("VAN SOLINGEN PIET"/IN OR "VAN SOLINGEN PIETER"/IN OR "VAN SOLLINGEN PIETER"/IN)

=> d 1-10 111 ti

L11 ANSWER 1 OF 10 CA COPYRIGHT 2000 ACS  
TI Cellulase producing actinomycetes , cellulase produced therefrom and method of producing same

L11 ANSWER 2 OF 10 CA COPYRIGHT 2000 ACS  
TI Streptomyces 35-kilodalton cellulase, its DNA and amino acid sequences, recombinant expression and uses

L11 ANSWER 3 OF 10 CA COPYRIGHT 2000 ACS  
TI Cellulase produced by actinomycetes and method of producing same

L11 ANSWER 4 OF 10 CA COPYRIGHT 2000 ACS  
TI Detergents comprising cellulases of Bacillus with improved performance

L11 ANSWER 5 OF 10 CA COPYRIGHT 2000 ACS  
TI Bacillus cellulase and its applications for detergents and textile treatment

L11 ANSWER 6 OF 10 CA COPYRIGHT 2000 ACS  
TI Alkali-tolerant xylanases of Bacillus and use for paper and pulp production

L11 ANSWER 7 OF 10 CA COPYRIGHT 2000 ACS  
TI Beverage preservation using yeast killer toxins manufactured by expression of the cloned gene

L11 ANSWER 8 OF 10 CA COPYRIGHT 2000 ACS  
TI A eukaryotic expression system based on elements from Penicillium

L11 ANSWER 9 OF 10 CA COPYRIGHT 2000 ACS  
TI Cloning and expression of genes for penicillin biosynthesis of Penicillium chrysogenum

L11 ANSWER 10 OF 10 CA COPYRIGHT 2000 ACS  
TI A method for enhancing production of secondary metabolites using clustered biosynthetic genes

L24 ANSWER 18 OF 40 CA COPYRIGHT 2000 ACS  
AN 111:41859 CA  
TI Cleaning of cotton-containing fabrics with alkaline cellulase aqueous solutions  
IN Suzuki, Satoru; Hoshino, Eiichi; Nakagawa, Junosuke  
PA Kao Corp., Japan  
SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM D06L003-16  
ICA C11D003-386; D06L001-12; D06L003-02  
CC 46-5 (Surface Active Agents and Detergents)  
Section cross-reference(s): 7, 40

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01040670	A2	19890210	JP 1987-195558	19870805
AB	Cotton-contg. fabrics are cleaned by treating with aq. solns. of basic (preferred pH .gtreq. 7) cellulase or alkali-resistant cellulase having .gtreq. 50% activity (relative to the preferred conditions) at pH .gtreq. 8 and tripolyphosphates and/or pyrophosphates, following by treating with aq. solns. of peroxides and orthophosphates.				

A

muddy cotton-contg. fabric was immersed in an aq. soln. (S1) contg. Na linear alkylbenzenesulfonate (I) 200, cellulase (produced by *Bacillus N1* bacteria) 20, and Na tripolyphosphate (II) 300 ppm at 40.degree. for 15 min, then stirred in an aq. soln. (S2) contg. I 200, Na percarbonate 400, Na orthophosphate (III) 200, and polyethylene glycol 20 ppm for 10 min at 60.degree., washed with water, and ironed to give a sample showing washing ratio [(A - B)/(C - B) .times. 100; A, B, C = reflection index of washed fabric, fabric before washing, and original fabric, resp.] 93.2%, vs. 72.3 using same S1 but a S2 contg. II instead of III at 20.degree..

ST cotton cleaning detergent alk cellulase; tripolyphosphate cellulase cleaning cotton; orthophosphate peroxide cleaning cotton

IT Detergents

(alk. cellulase- and tripolyphosphate- and/or pyrophosphate-contg., with solns. of peroxides and orthophosphates, for cotton-contg. fabrics)

IT Enzymes

RL: USES (Uses)  
(cellulolytic, alk., detergents contg., for cotton-contg. fabrics)

IT 3313-92-6, Sodium percarbonate 11138-47-9, Sodium perborate

RL: USES (Uses)  
(bleach, detergents contg. orthophosphates and, for cotton-contg. fabrics)

IT 7722-88-5 7758-29-4, Sodium tripolyphosphate

RL: USES (Uses)  
(detergents contg. alk. cellulase and, for cotton-contg. fabrics)

IT 7632-05-5, Sodium orthophosphate

RL: USES (Uses)  
(detergents contg. peroxides and, for cotton-contg. fabrics)

IT 9012-54-8P, Cellulase

RL: PREP (Preparation)  
(from *Bacillus N1*, detergents contg., for cotton-contg. fabrics)